



SEQUENCE LISTING

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Melamed, Eldad  
Brenneman, Douglas  
Ramot at Tel-Aviv University, Ltd.  
The Government of the United States of America  
as represented by The Secretary of the  
Department of Health and Human Services

<120> Methods of Treating and/or Preventing Autoimmune  
Diseases

<130> 019856-000210US

<140> US 10/748,765

<141> 2003-12-29

<150> US 60/437,650

<151> 2003-01-02

<160> 23

<170> PatentIn Ver. 2.1

<210> 1

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:activity  
dependent neurotrophic factor I (ADNF I) active  
core site (SAL, ADNF-9)

<400> 1

Ser Ala Leu Leu Arg Ser Ile Pro Ala  
1 5

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:activity  
dependent neurotrophic factor III (ADNF III)  
active core site (NAP)

<400> 2

Asn Ala Pro Val Ser Ile Pro Gln  
1 5

<210> 3

<211> 14

<212> PRT

<213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
 polypeptide

<400> 3  
 Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala  
 1 5 10

<210> 4  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
 polypeptide

<400> 4  
 Val Glu Glu Gly Ile Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser  
 1 5 10 15  
 Ile Pro Ala

<210> 5  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
 polypeptide

<400> 5  
 Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala  
 1 5 10

<210> 6  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
 polypeptide

<400> 6  
 Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala  
 1 5 10

<210> 7  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
 polypeptide

<400> 7  
Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala  
1 5 10

<210> 8  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:ADNF I  
polypeptide

<400> 8  
Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala  
1 5 10

<210> 9  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:ADNF III  
polypeptide

<400> 9  
Gly Gly Asn Ala Pro Val Ser Ile Pro Gln  
1 5 10

<210> 10  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:ADNF III  
polypeptide

<400> 10  
Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser  
1 5 10

<210> 11  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:ADNF III  
polypeptide

<400> 11  
Leu Gly Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser  
1 5 10 15

<210> 12  
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 <212> PRT  
 <213> Artificial Sequence  
  
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 <223> Description of Artificial Sequence:ADNF III  
           polypeptide  
  
 <400> 12  
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   1                  5                  10                  15

Gln Ser

<210> 13  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:ADNF I  
           polypeptide

<220>  
 <221> MOD\_RES  
 <222> (1)..(40)  
 <223> Xaa = any naturally occurring amino acid or known  
           analogue of a natural amino acid, Xaa at positions  
           1-40 may be present or absent

<220>  
 <221> MOD\_RES  
 <222> (50)..(89)  
 <223> Xaa = any naturally occurring amino acid or known  
           analogue of a natural amino acid, Xaa at positions  
           50-89 may be present or absent

<400> 13  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
   1                  5                  10                  15  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   20                  25                  30  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Leu Arg Ser Ile Pro  
                   35                  40                  45  
  
 Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
   50                  55                  60  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
   65                  70                  75                  80  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   85

<210> 14  
 <211> 88  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:ADNF III  
       polypeptide  
  
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 <221> MOD\_RES  
 <222> (1)..(40)  
 <223> Xaa = any naturally occurring amino acid or known  
       analogue of a natural amino acid, Xaa at positions  
       1-40 may be present or absent  
  
 <220>  
 <221> MOD\_RES  
 <222> (49)..(88)  
 <223> Xaa = any naturally occurring amino acid or known  
       analogue of a natural amino acid, Xaa at positions  
       49-88 may be present or absent  
  
 <400> 14  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
   1                          5                          10                          15  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   20                          25                          30  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ala Pro Val Ser Ile Pro Gln  
                   35                          40                          45  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   50                          55                          60  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   65                          70                          75                          80  
  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                           85  
  
  
 <210> 15  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:1-R or 2-R  
       within the formula for ADNF I polypeptide  
  
 <400> 15  
 Val Leu Gly Gly Gly  
   1                          5  
  
  
 <210> 16  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:2-R within the  
formula for ADNF I polypeptide

<400> 16  
Val Leu Gly Gly  
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<210> 17  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:2-R within the  
formula for ADNF I polypeptide

<400> 17  
Val Leu Gly Gly Val  
1 5

<210> 18  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:2-R within the  
formula for ADNF I polypeptide

<400> 18  
Gly Val Leu Gly Gly  
1 5

<210> 19  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:3-R or 4-R  
within the formula for ADNF III polypeptide

<400> 19  
Leu Gly Leu Gly Gly  
1 5

<210> 20  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:4-R within the  
formula for ADNF III polypeptide

<400> 20  
Leu Gly Leu Gly  
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<210> 21  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:4-R within the  
formula for ADNF III polypeptide

<400> 21  
Leu Gly Leu Gly Leu  
1 5

<210> 22  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:1-R within the  
formula for ADNF I polypeptide

<400> 22  
Val Glu Glu Gly Ile Val Leu Gly Gly Gly  
1 5 10

<210> 23  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:3-R within the  
formula for ADNF III polypeptide

<400> 23  
Ser Val Arg Leu Gly Leu Gly Gly  
1 5